

ABSTRACT

Novel diamondoid-based components that may be used in nanoscale construction
5 are disclosed. Such components include rods, brackets, screws, gears, rotors, and
impellers. Subassemblies (or subsystems) may comprise one or more diamondoid
components. Exemplary subassemblies include atomic force microscope tips, molecular
tachometers and signal waveform generators, and self-assembling cellular membrane
pores and channels.

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